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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/613,483	07/03/2003	Alan Edward Palmer	F7713(V)	5958
201 7590 01/02/2009 UNILEVER PATENT GROUP 800 SYLVAN AVENUE			EXAMINER	
			MCCORMICK, MELENIE LEE	
AG West S. Wing ENGLEWOOD CLIFFS, NJ 07632-3100		ART UNIT	PAPER NUMBER	
			1655	
			MAIL DATE	DET HERWINGSE
			01/02/2009	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/613.483 PALMER ET AL. Office Action Summary Examiner Art Unit MELENIE MCCORMICK -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 03 November 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is

	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Dispositi	on of Claims
5)□ 6)⊠ 7)□	Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-18 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.
Applicati	on Papers
10)□	The specification is objected to by the Examiner. The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Index 35 U.S.C. § 119
a)[Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Paper No(s)/Mail Date _

1) Notice of References Cited (PTO-892)

Information Disclosure Statement(s) (FTO/SE/08)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

6) Other:

5 Notice of Informal Patent Application

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03 November 2008 has been entered.

Claims 1-18 are pending and presented for examination on the merits.

Withdrawn Rejections

The previous rejection under 35 U.S.C. 103(a) has been withdrawn upon further consideration.

New Rejections

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 1655

Claims 1-11, 14-15 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maxwell et al. (US 6,063,432) as evidenced by Jones et al. (US 2004/0255074) and wikipedia.org. and in view of Cook et al. (US 4,451,488).

Maxwell et al. beneficially teach a nutritional bar (healthbar) comprising soy protein, the soy protein being in the form of isolates, grits and nuts, which is the major source of protein of the bar (see e.g. col 2, lines 43-53), Maxwell et al. further teach that protein may be present in the bar in a range of about 20-50% by weight (see e.g. claim 1) and that soy protein isolate, soy grits and soy nuts may comprise 7.5-12.5 % by weight each of the total protein, the total protein being in the range of 25-35% by weight. It is therefore clear that the that the soy protein isolate, soy grits, and soy nuts are primarily comprised of soy protein (i.e. close to 100% protein). Maxwell also teaches that the bar may contain minerals such as zinc, copper, manganese, chromium and iron (see e.g. col 1, lines 14-15). Although Maxwell does not disclose the protein is in the form of a nuggets, Applicants have disclosed that a nugget has a size anywhere from 4 mm³ to 35 mm³ (see instant specification page 6, lines 29032). As evidenced by Jones et al., a small soybean ranges from less than 3 mm to 6 mm in diameter (see e.g. [0039]) and a large soybeans can have a diameter larger than 7 mm (see e.g. [0050]). As evidenced by wikipedia.org, soy nuts are made by soaking soybeans in water and baking them. Thus, a soy nut would be expected to have a similar size as the soybean and be within the size range of the nuggets instantly claimed.

Maxwell et al. does not explicitly teach that the nutritional bar comprises glycerol or that the particular protein ranges instantly claimed are present in the health bar.

Art Unit: 1655

Cook et al. teaches a food bar with a long shelf life and good flavor (see e.g. col 1, lines 10-12). Cook et al. further teaches that it is known that high levels of moisture in food generally promote microbiological spoiling and growth of organisms such as yeast, molds, and bacteria (see e.g. col 1, lines 33-36). Cook et al. further teaches that the A_w (water activity) of the food bar kept below .55 and is in the range of 0.2 -0.55 (see e.g. col 2, lines 43-53). Cook et al. teach that the low water activity of the food bar is provided by the addition of polyhydric alcohols, including glycerol, and provides stability to the product (see e.g. col 2, lines 55-64). Cook et al. further disclose that glycerol is present in the food bar in an amount of about 3% by weight (see e.g. claim 1).

It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to add the humectant glycerol to the food bar taught by Maxwell. A person of ordinary skill in the art at the time the claimed invention was made would have been motivated and would have had a reasonable expectation of success in doing so based upon the disclosure of Cook et al. that glycerol lowers the water activity of food bars, therefore inhibiting the growth of microorganisms and providing greater shelf stability. A person of ordinary skill in the art would therefore recognize this beneficial effect of glycerol and would be motivated to include it in the food bar taught by Maxwell et al. A person of ordinary skill in the art would have been motivated to optimize the amount of protein in the food bar taught by Maxwell et al. depending upon the nutritional needs of those it was intended for.

From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed

Art Unit: 1655

invention. Therefore, the invention as a whole was *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Claims 1-12, 14-15 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maxwell et al. (US 6,063,432) as evidenced by Jones et al. (US 2004/0255074) and wikipedia.org. in view of Cook et al. (US 4,451,488), further in view of Nanbu et al. (US 6,074,675).

Maxwell et al. and Cook et al. teach a nutritional food bar comprising soy protein nuggets, transition minerals and glycerol and are relied upon for the reasons set forth above.

Maxwell et al. and Cook et al. do not explicitly teach that the minerals are substantially water insoluble at 20°C.

Nanbu et al. teach a mineral composition and a food which comprises the mineral composition (see e.g. col 1, lines 10-15). Nanbu et al. teach that minerals such as iron and zinc are water insoluble. (see e.g. col 5, lines 44-47).

A person of ordinary skill in the art would have reasonably understood, based upon the disclosure of Nanbu et al., that the transition metals, particularly iron and zinc, would be water insoluble at room temperature (20°C). Although the particular temperature is not disclosed by Nanbu et al., a person of ordinary skill in the art would not expect the solubility to be increased at room temperature and would therefore realize that zinc and iron would be water insoluble at room temperature.

Art Unit: 1655

From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention. Therefore, the invention as a whole was *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Claims 1-11 and 13-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maxwell et al. (US 6,063,432) as evidenced by Jones et al. (US 2004/0255074) and wikipedia.org. in view of Cook et al. (US 4,451,488), Nanbu et al. (US 6,074,675), further in view of Leusner et al. (US 6,468,568) and El Nokaly (US 5,215,757).

Maxwell et al. and Cook et al. teach a nutritional food bar comprising soy protein nuggets, transition minerals and glycerol and are relied upon for the reasons set forth above

Nanbu further teaches that the iron used in the food composition may be in the form of ferric oxide, iron carbonate, and ferrous phosphate (see e.g. col 5, lines 57-59).

Maxwell et al. and Cook et al. do not explicitly teach that the transition metal is substantially encapsulated in an encapsulation material or that the encapsulation material comorises alginate.

Leusner et al. teach that encapsulation of minerals in foods allows the mineral content of foods to be increased without substantially affecting the taste of the food (see e.g. col 7, lines 60-67).

Art Unit: 1655

El Nokaly teaches that a polysaccharide liquid crystal can be made to encapsulate and deliver nutrients such as minerals to foods (see e.g. col 1, lines 13-15). El Nokaly further teaches that the minerals may include manganese, iron, zinc and copper (see e.g. col 11, lines 10-20). El Nokaly further teaches that the polysaccharide can be alginate (see e.g. claim 8).

It would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to encapsulate the minerals in the food bar taught by Maxwell. A person of ordinary skill in the art would have had a reasonable expectation of success in doing so based upon the disclosure of Leusner et al. that encapsulation of minerals in foods allows the mineral content of foods to be increased without substantially affecting the taste of the food. Therefore, the benefit of encapsulation of minerals in a food bar would have been clear to a person of ordinary skill in the art at the time the claimed invention was made. A person of ordinary skill in the art would have further been motivated to use a polysaccharide such as an alginate as the encapsulation material based upon the disclosure of El Nokaly that alginate is used as an encapsulation material for minerals, including manganese, iron, zinc and copper. A person of ordinary skill in the art would have also reasonably understood, based upon the disclosure of Nanbu et al., that iron could be used in a food bar such as that taught by Maxwell in the form of ferric oxide, iron carbonate, and ferrous phosphate. This is because Nanbu et al. is also using iron in these forms in a food composition. It would therefore be clear that these forms of iron are options for use in food compositions.

Art Unit: 1655

From the teachings of the references, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention. Therefore, the invention as a whole was *prima facie* obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Response to Arguments

Applicants argue that the Office has not indicated why Maxwell would require a humectant and why it would be obvious to incorporate glycerol into Maxwell's bars. This is not found persuasive. In the new rejection above, the disclosure of Cook et al. is discussed. Cook et al. teaches that lowering the water activity of a food product increases its shelf life and inhibits microbial growth. Cook et al. also teaches the use of glycerol in a food bar. Therefore, a person of ordinary skill in the art would a have a reasonable expectation of success in using glycerol in the food bar taught by Maxwell in order to increase its shelf life and to inhibit microbial growth.

Applicants also argue that newly amended claim 16 is distinguished from Maxwell et al.'s bar. This is not found persuasive, in light of the new rejection, discussed above. Art Unit: 1655

Conclusion

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELENIE MCCORMICK whose telephone number is (571)272-8037. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher R. Tate/ Primary Examiner, Art Unit 1655

MM